AMENDMENTS TO THE CLAIMS

CORRECTED VERSION

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (CURRENTLY AMENDED) An organophosphorus compound exhibiting herbicidal, bactericidal or fungicidal properties and having a Use of organophosphorus compounds of the general formula (I)

$$\begin{array}{c|c}
R_1 & O \\
 & \\
N-A-P-R_3
\end{array}$$

$$\begin{array}{c}
 & (I)_{\underline{i}} \\
 & \\
R_4
\end{array}$$

wherein in which R_1 and R_2 are independently identical or different and are selected from the a group consisting of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted heterocyclic residue, halogen, OX_1 and OX_2 :

wherein X_1 and X_2 may be identical or different and are independently selected from athe group consisting of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted and unsubstituted and unsubstituted and

unsubstituted cycloalkyl, substituted and unsubstituted aralkyl, substituted and unsubstituted heterocyclic residues:

wherein A is selected from athe group consisting of an-alkylene residues, an-alkenyl residues and a-hydroxyalkylene residues;

wherein R₃ is selected from athe group consisting of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted aryl, substituted and unsubstituted and unsubstituted and unsubstituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic residues and, halogen;

wherein R_4 is selected from athe group consisting of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted aryl, substituted and unsubstituted and unsubstituted and unsubstituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic residues, halogen and, $OX_{4;5}$

wherein X₄ is selected from athe group consisting of hydrogen, substituted and unsubstituted alkyl, substituted and unsubstituted hydroxyalkyl, substituted and unsubstituted aryl, substituted and unsubstituted and unsubstituted alkenyl, substituted and unsubstituted alkynyl, substituted and unsubstituted cycloalkyl, substituted and unsubstituted heterocyclic residues, a-silyl, a-cations of an-organic bases, cations of and-inorganic bases, in particular of a metal of main group I, II or III of the periodic system, ammonium, substituted ammonium and ammonium compounds which are derived from ethylenediamine or amino acids;

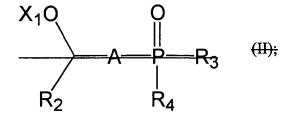
and pharmaceutically acceptable salts, esters, salts of the esters and amides thereof. and salts of the esters, or alternatively compounds which, on administration, provide the compounds to be used according to the invention as metabolites or breakdown products,

for the production of pharmaceutical preparations for the therapeutic and prophylactic treatment of infections in humans and animals caused by parasites, fungi, viruses and bacteria selected from the group consisting of bacteria of the family *Propionibacteriaceae*, in particular of the genus *Propionibacterium*, in particular the species *Propionibacterium acnes*, bacteria of the family *Actinomycetaceae*, in particular of the genus *Actinomyces*, bacteria of the genus

Corynnynebacterium, in particular the species Corynebacterium diphtheriae and Corynebacterium pseudotuberculosis, bacteria of the family Mycobacteriaceae, of the genus Mycobacterium, in particular the species Mycobacterium leprae, Mycobacterium tuberculosis, Mycobacterium bovis and Mycobacterium avium, bacteria of the family Chlamydiaceae, in particular the species Chlamydia trachomatis and Chlamydia psittaci, bacteria of the genus Listeria, in particular the species Listeria monocytogenes, bacteria of the species Erysipelthrix rhusiopathiae, bacteria of the genus Clostridium, bacteria of the genus Yersinia, the species Yersinia pestis, Yersinia pseudotuberculosis, Yersinia enterocolitica and Yersinia ruekeri, bacteria of the family Mycoplasmataceae, of the genera Mycoplasma and Urcaplasma, in particular the species Mycoplasma pneumoniae, bacteria of the genus Brucella, bacteria of the genus Bordetella, bacteria of the genus Campylobacter, in particular the species Campylobacter jejuni, Campylobacter coli and Campylobacter fetus, bacteria of the genus Helicobacter, in particular the species Helicobacter pylori, bacteria of the families Spirochaetaceae and Leptospiraceae, in particular the genera Treponema, Borrelia and Leptospira, in particular Borrelia burgdorferi, bacteria of the genus Actinobacillus, bacteria of the family Legionellaceae, of the genus Legionella, bacteria of the family Rickettsiaceae and the family Bartonellaceae, bacteria of the genera Nocardia and Rhodococcus, bacteria of the genus Dermatophilus, and as a fungicide, bactericide and herbicide in plants.

2. (CURRENTLY AMENDED) <u>A compound exhibiting herbicidal, bactericidal or fungicidal properties according to claim 1, wherein:</u>

Use according to claim 1, characterised in that the organophosphorus compounds are of the formula (II)



 R_1 is OX_1 and further wherein X_1 is is selected from athe group consisting of hydrogen, substituted or unsubstituted acyl, substituted or unsubstituted alkyl, substituted or unsubstituted aryl, substituted or unsubstituted aralkyl, substituted or unsubstituted cycloalkyl and, substituted or unsubstituted heterocyclic residues; R_2 , R_3 , R_4 and A have the same meaning as in formula (I).

3.	(CURRENTLY AMENDED) Use A compound exhibiting herbicidal, bactericidal or
fungi	cidal properties according to claim 2, wherein: characterised in that
	R ₂ is an acyl residue; , in particular a formyl or acetyl residue,
	R ₃ is selected from athe group consisting of hydrogen, methyl and ethyl;
	R_4 is selected from athe group consisting of hydrogen, methyl, ethyl and OX_4 ,
	wherein X ₄ is selected from athe group consisting of hydrogen, sodium,
potas	sium, methyl and ethyl;
	X ₁ is <u>hydrogen;</u> H
and	
	A is selected from athe group consisting of alkylene, alkenylene and or hydroxyalkylene

4. (CURRENTLY AMENDED) <u>A compound exhibiting herbicidal, bactericidal or fungicidal properties according to claim 1, wherein: Use according to one of the preceding claims, characterised in that</u>

A forms a chain of three carbon atoms between the phosphorus atom and the nitrogen atom.

5. (CURRENTLY AMENDED) A compound exhibiting herbicidal, bactericidal or fungicidal properties according to claim 2, wherein: characterised in that

X₄ is selected from athe group consisting of hydrogen, ammonium and metals of main groups I and II of the periodic system, ammonium and preferably sodium, potassium, calcium or magnesium, ammonium compounds, which are derived from ethylenediamine or amino acids, preferably ethanolamine, ethylenediamine, N,N dibenzylethylenediamine and arginine.

6.	(CURRENTLY AMENDED) Use A compound exhibiting herbicidal, bactericidal or
fungio	cidal properties according to one of claims 2, 3, and 5 claim 3, wherein:

 R_2 is <u>a an acyl residue</u> and A an alkylene residue, wherein R_2 is preferably formyl or acetyl residue; and

A is a preferably by propylene, propenylene or and hydroxypropylene residue.

7. (CURRENTLY AMENDED) Use A compound exhibiting herbicidal, bactericidal or fungicidal properties according to one of claims 1, 2, 3, and 5 claim 5, wherein:

X₄ is a metal selected from a group consisting of sodium, potassium, calcium and magnesium for the production of pharmaceutical preparations for the treatment of infections caused by bacteria, viruses, fungi or uni- or multicellular parasites.

8.-14. (CANCELLED)

15. (NEW) A method of treating a desirable plant having or susceptible to bacterial and fungal infection comprising:

applying to the plant a composition containing an effective amount of a compound according to claim 1 whereby infection of the plant is prevented, suppressed or eliminated.

- 16. (NEW) A method of treating a desirable plant according to claim 15, wherein: the composition includes one or more excipients selected from a group consisting of fillers, extenders, binders, humectants, solubilizing agents, preservatives, emulsifiers, suspending agents, dissolution retardants, colorants, readsorption accelerators, wetting agents, adsorbents and lubricants.
- 17. (New) A method of treating a desirable plant according to claim 15, wherein: the composition is applied to the plant as a suspension, powder, emulsion, granules, microcapsules or solution.

- 18. (NEW) A method of treating a desirable plant according to claim 15, wherein: the composition is applied directly to one or more plant surfaces.
- 19. (NEW) A method of treating a desirable plant according to claim 15, wherein: the composition is applied to media in which the plant is growing and is subsequently absorbed by the plant from the media.
- 20. (NEW) A method of treating an undesirable plant comprising:

 applying to the plant a composition containing an effective amount of a compound according to claim 1, whereby the plant will be weakened or killed.
- 21. (NEW) A method of treating an undesirable plant according to claim 20, wherein: the composition includes one or more excipients selected from a group consisting of fillers, extenders, binders, humectants, solubilizing agents, preservatives, emulsifiers, suspending agents, dissolution retardants, colorants, readsorption accelerators, wetting agents, adsorbents and lubricants.
- 22. (NEW) A method of treating an undesirable plant according to claim 20, wherein: the composition is applied to the plant as a suspension, powder, emulsion, granules, microcapsules or solution.
- 23. (NEW) A method of treating an undesirable plant according to claim 20, wherein: the composition is applied directly to one or more plant surfaces.
- 24. (NEW) A method of treating an undesirable plant according to claim 20, wherein: the composition is applied to media in which the plant is growing and is subsequently absorbed by the plant from the media.